

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10020161

Frame	: E56J	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 17.0/8.90-8.50 A	Protection degree	: IP21
L. R. Amperes	: 96.9/50.7-48.5 A	Cooling method	: IC01 - ODP
LRC	: 5.7x(Code J)	Mounting	: F-1
No load current	: 9.60/4.14-4.80 A	Rotation <sup>1</sup>	: CCW
Rated speed	: 3470 rpm	Starting method	: Direct On Line
Slip	: 3.61 %	Approx. weight <sup>3</sup>	: 13.7 kg
Rated torque	: 0.314 kgfm		
Locked rotor torque	: 130 %		
Breakdown torque	: 250 %		
Insulation class	: B		
Service factor	: 1.30		
Moment of inertia (J)	: 0.0162 kgm <sup>2</sup>		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	61.9	63.2	67.8	68.8	Max. traction	: 18 kgf
Power Factor	0.38	0.64	0.74	0.82	Max. compression	: 32 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 2RS	6203 2RS
Sealing	:	Slinger	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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# LOAD PERFORMANCE CURVE

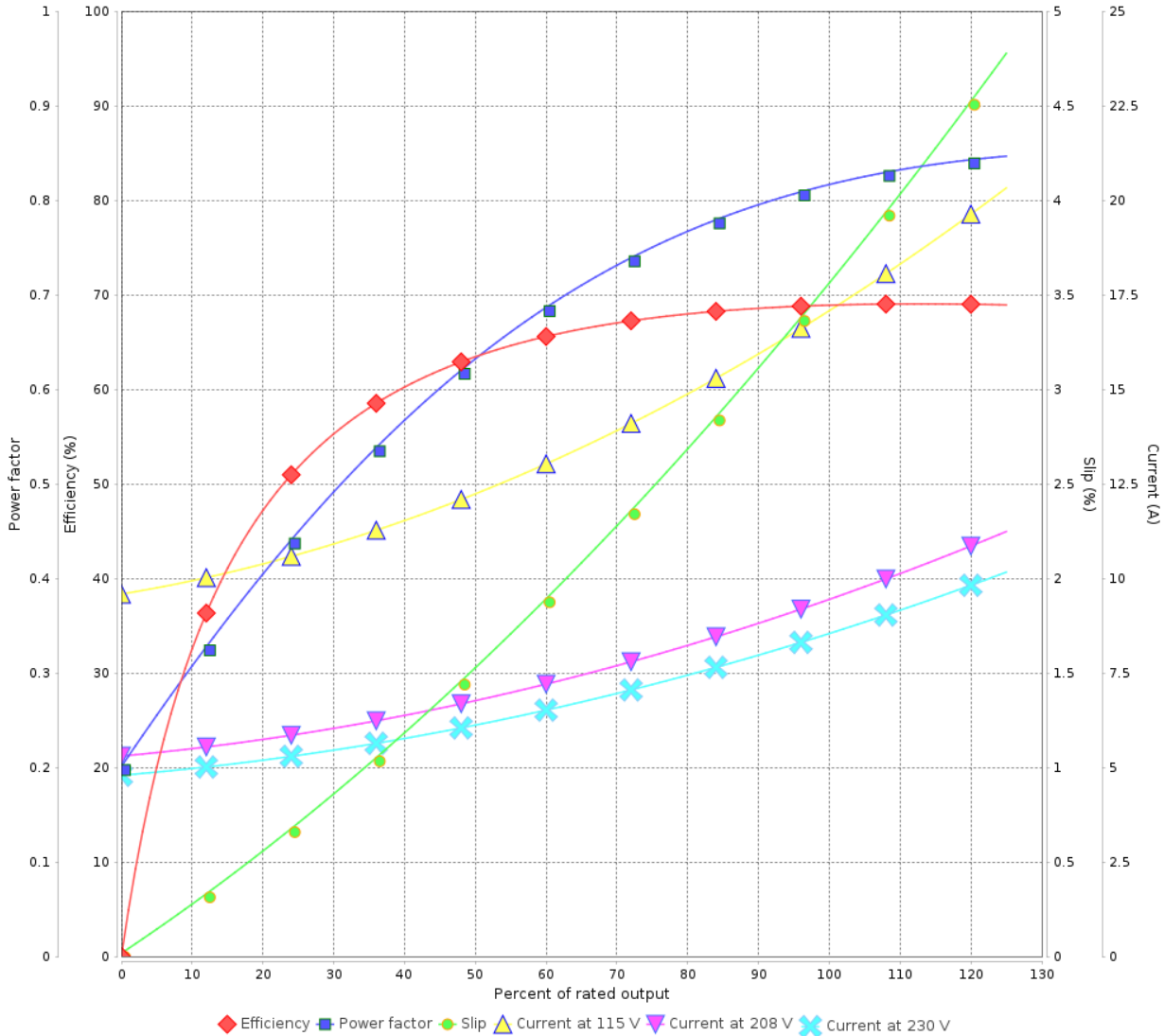
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10020161

LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 2P

Rated current : 17.0/8.90-8.50 A  
 LRC : 5.7  
 Rated torque : 0.314 kgfm  
 Locked rotor torque : 130 %  
 Breakdown torque : 250 %  
 Rated speed : 3470 rpm

Moment of inertia (J) : 0.0162 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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